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I/45

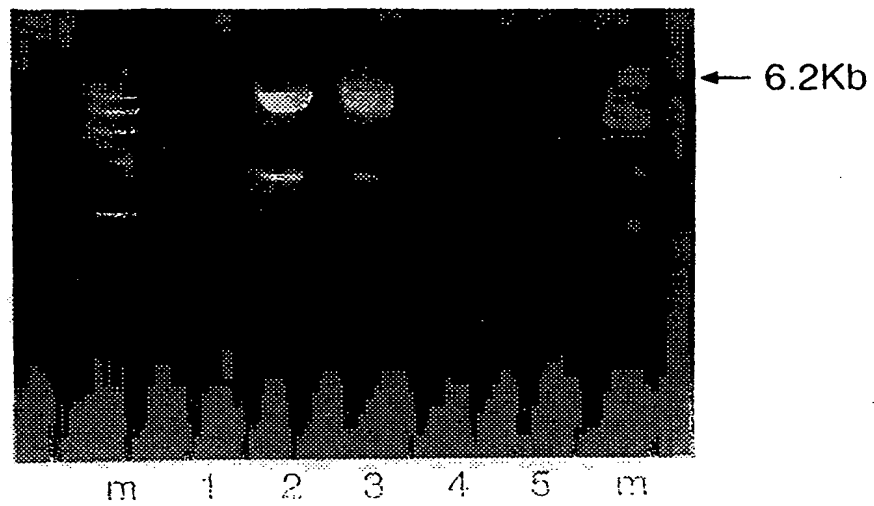


FIG. 1

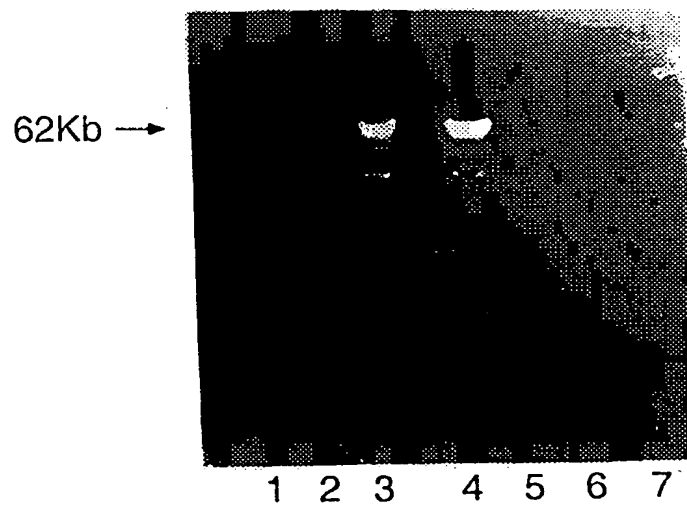
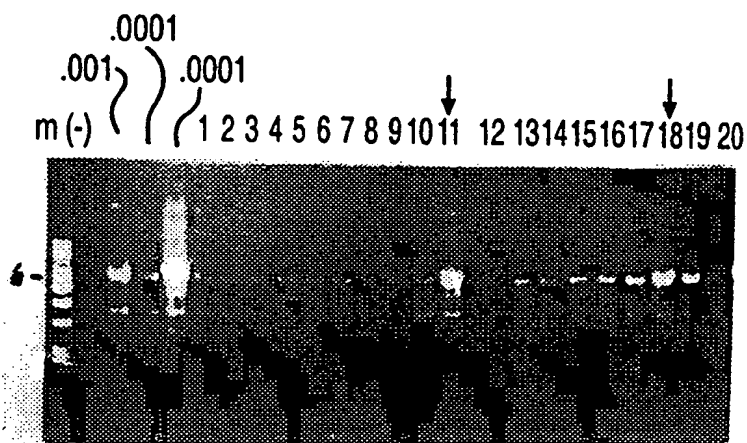
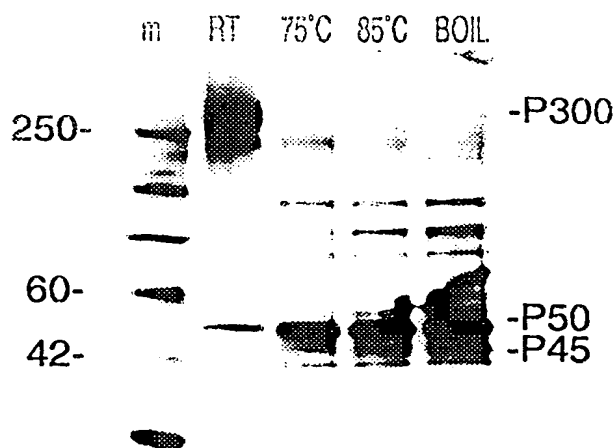
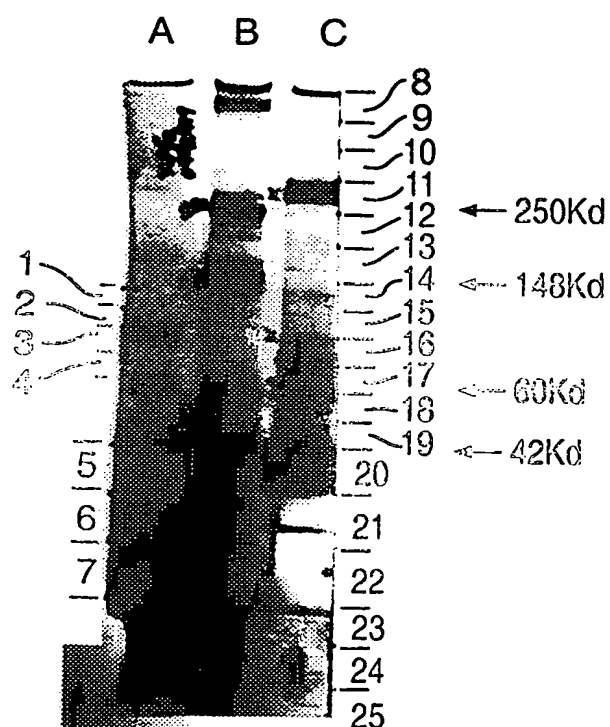


FIG. 2

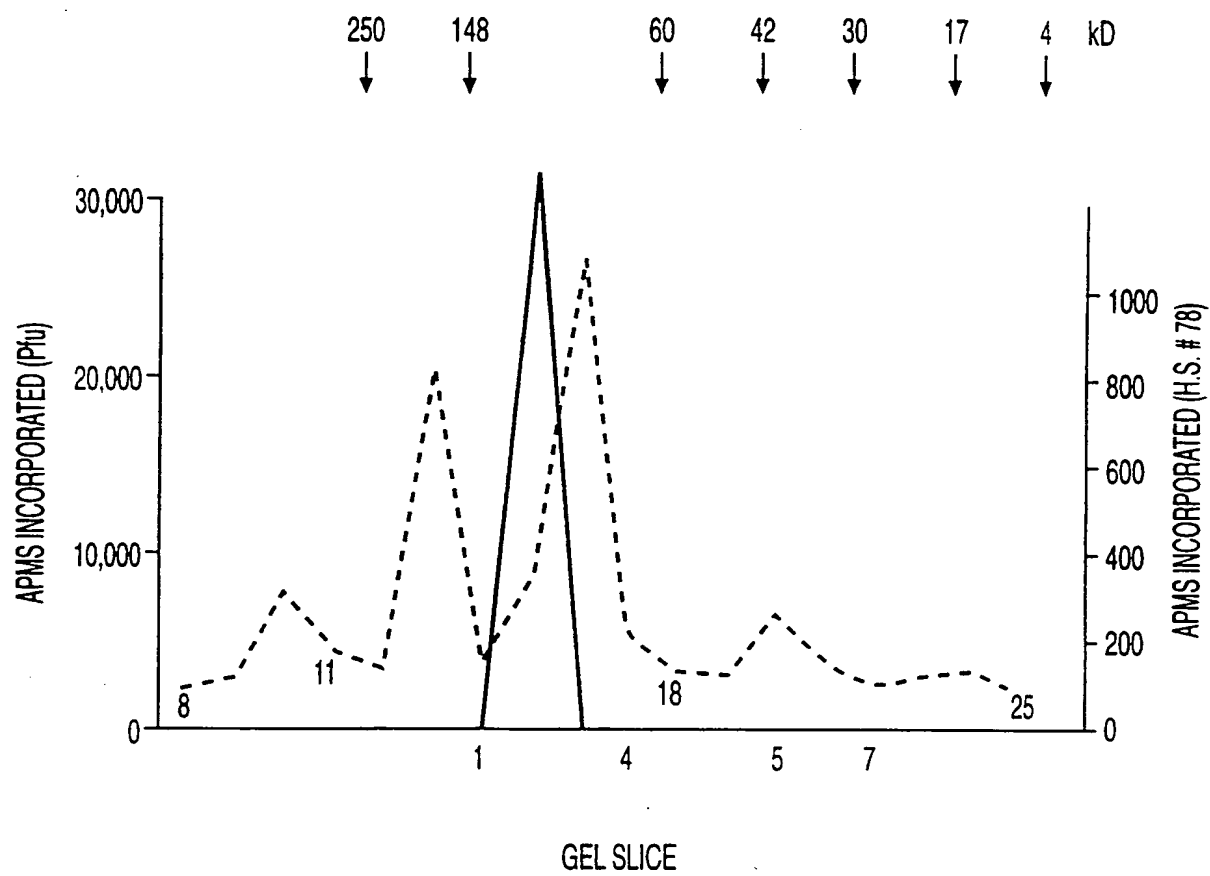
2/45

**FIG. 3****FIG. 7**

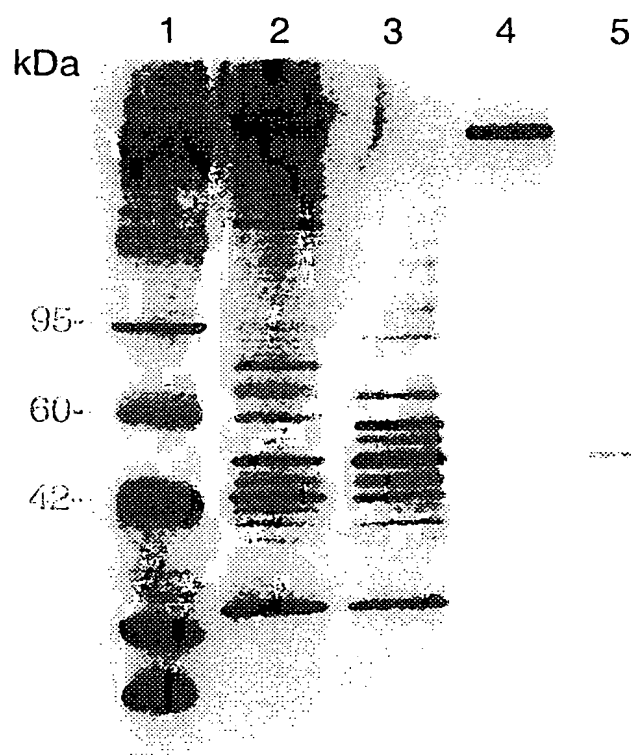
3/45

**FIG. 4**

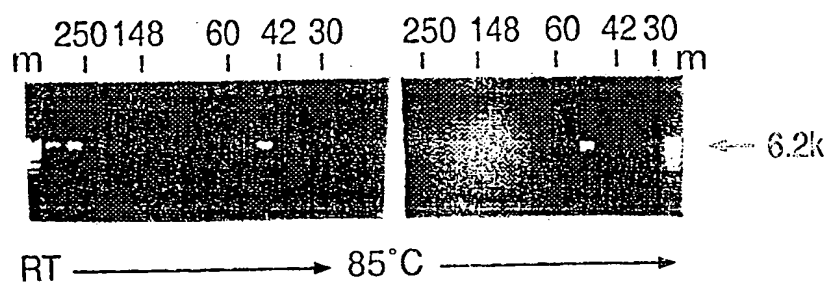
4/45

**FIG. 5**

5/45

**FIG. 6**

6/45

**FIG. 8**

7/45



FIG. 9

8/45

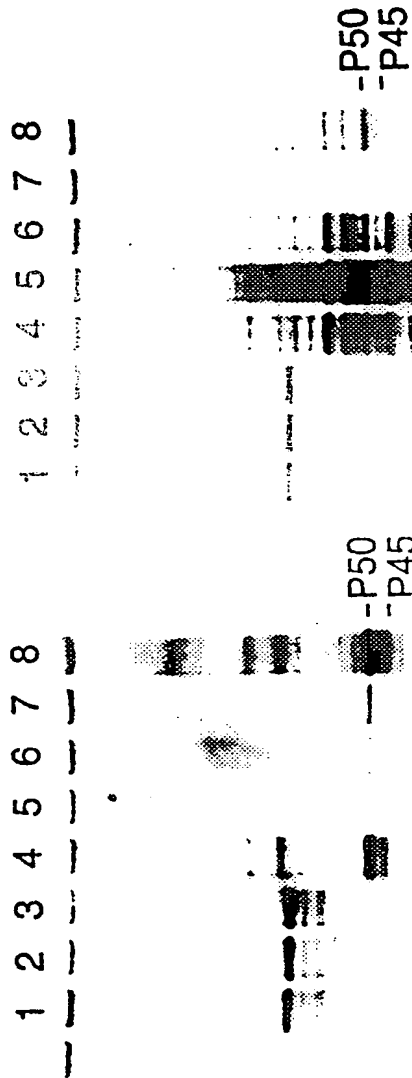
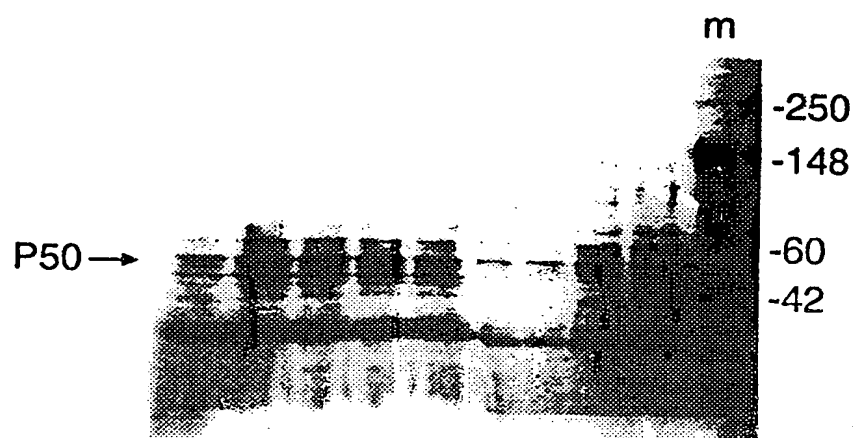
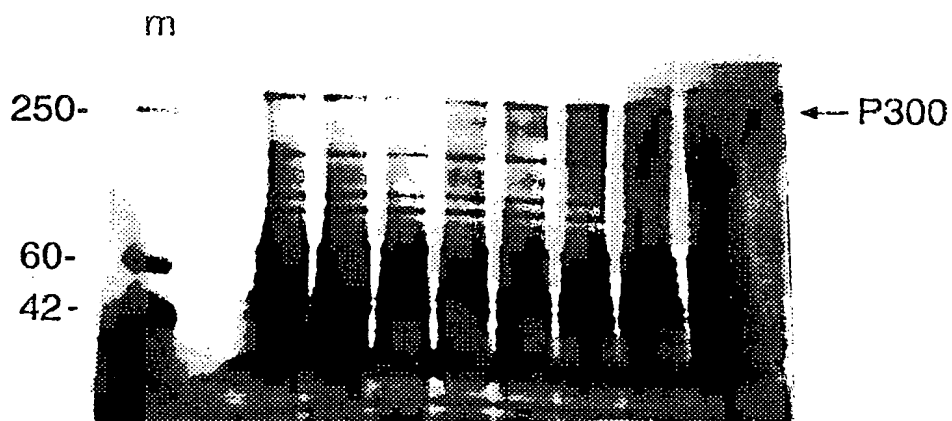


FIG. 10

9/45

**FIG. 11A****FIG. 11B**

10/45

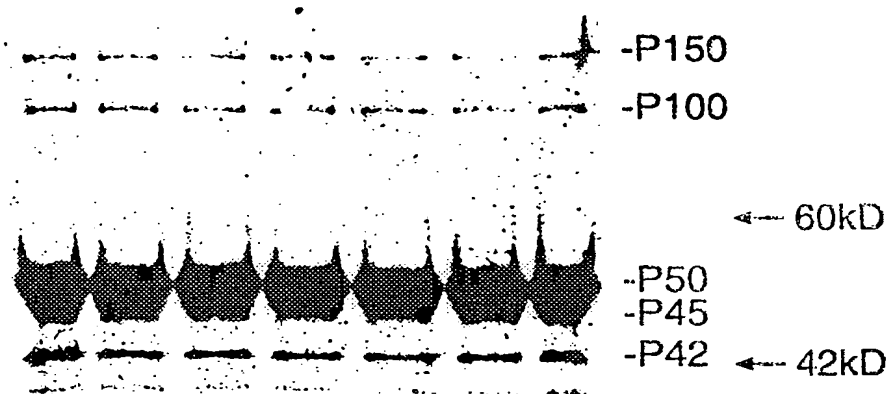
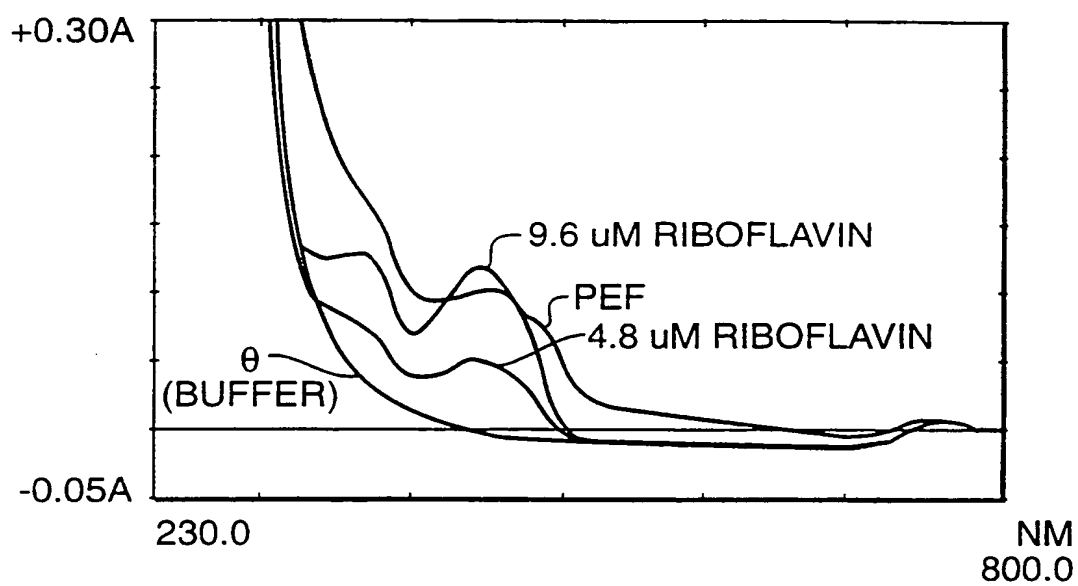


FIG. 12

II/45

**FIG. 13**

12/45

PEF LOT 52			PEF LOT 49			CLONE 1			CLONE 23		
NONE	7	0.7	0.2	7	0.7	0.2	1 μ l	(1/10)	1 μ l	5 μ l	5 μ l

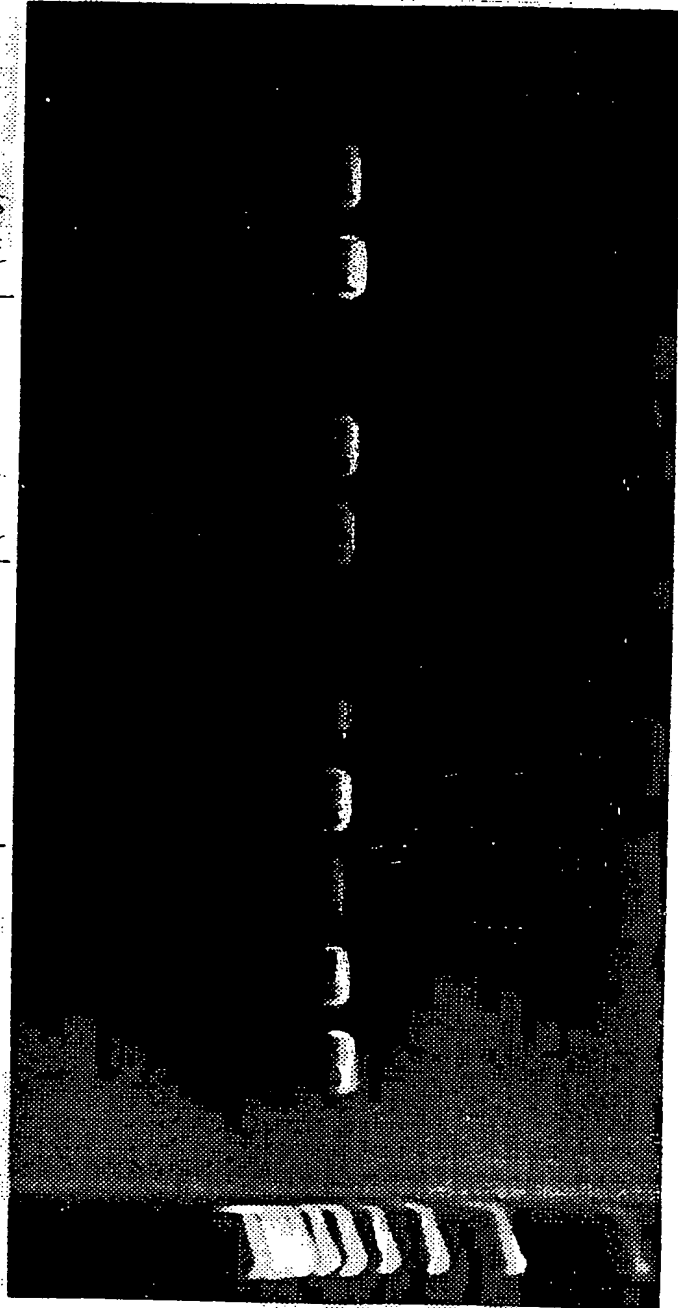
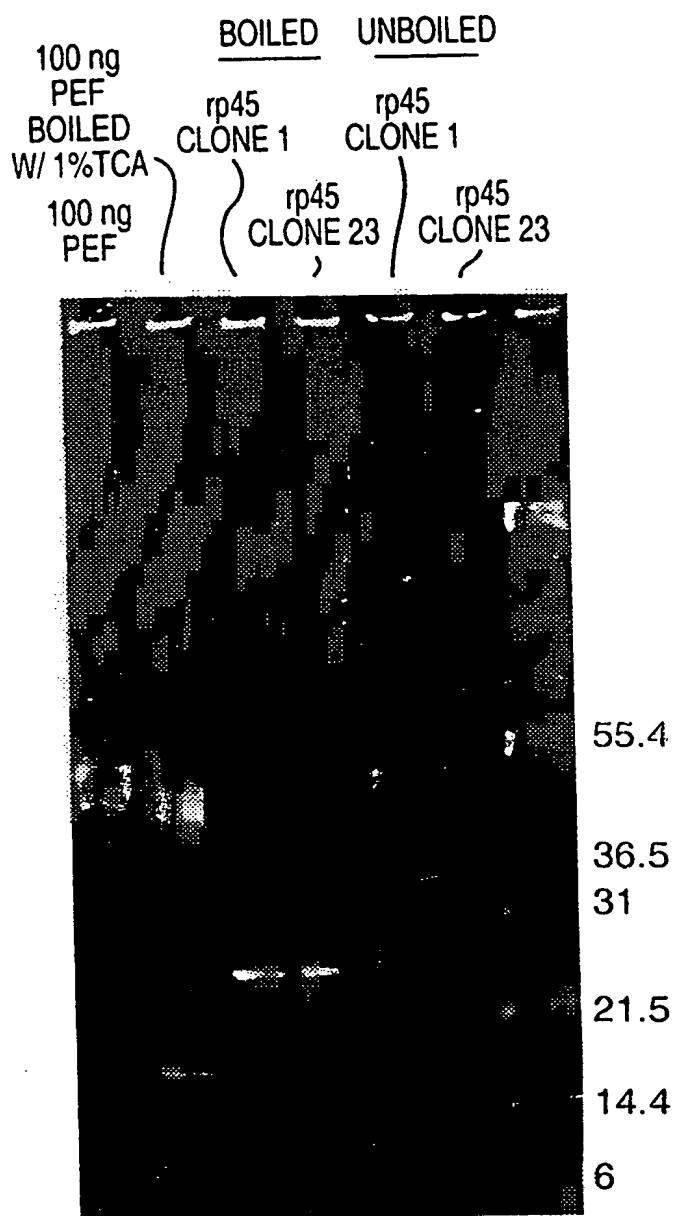
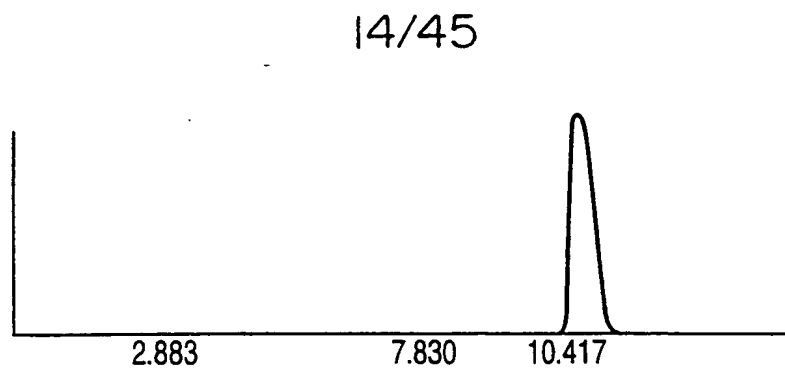
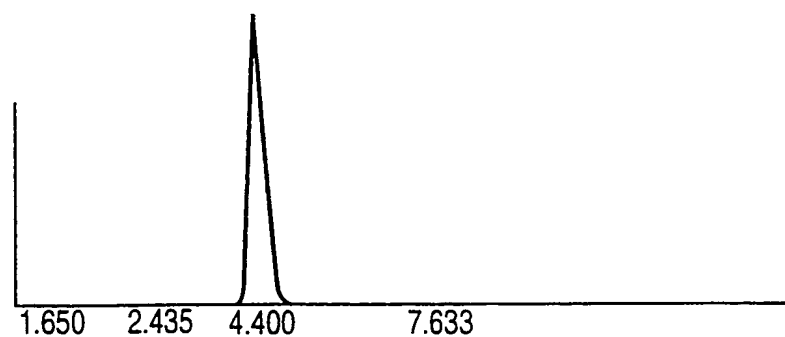
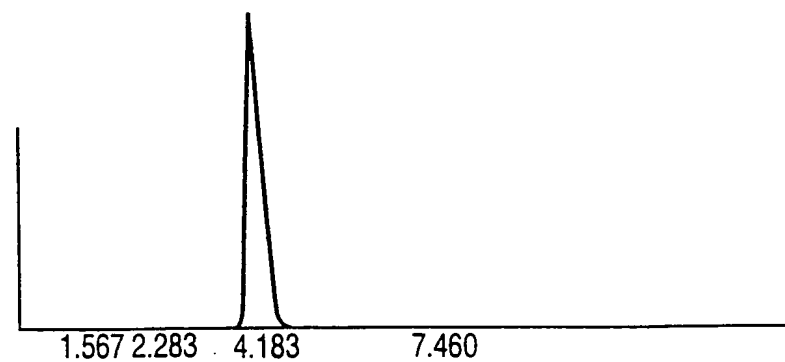


FIG. 14

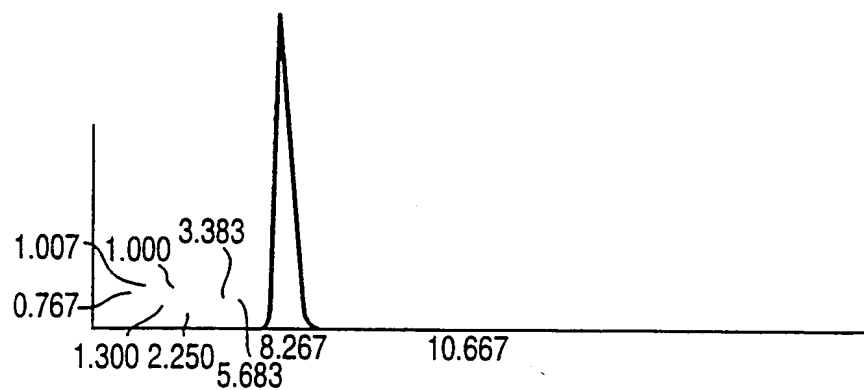
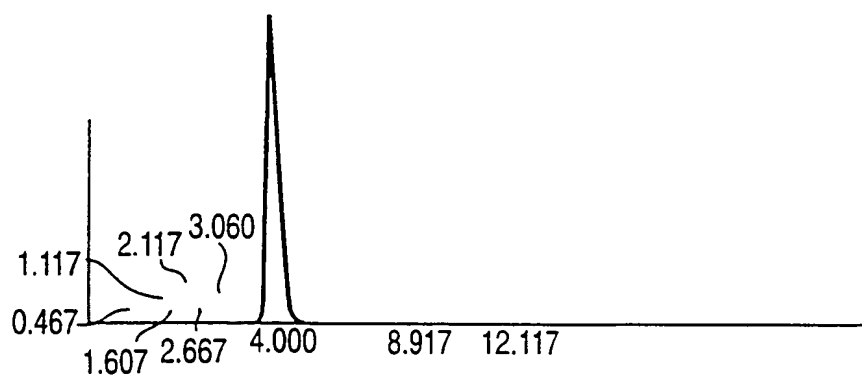
13/45

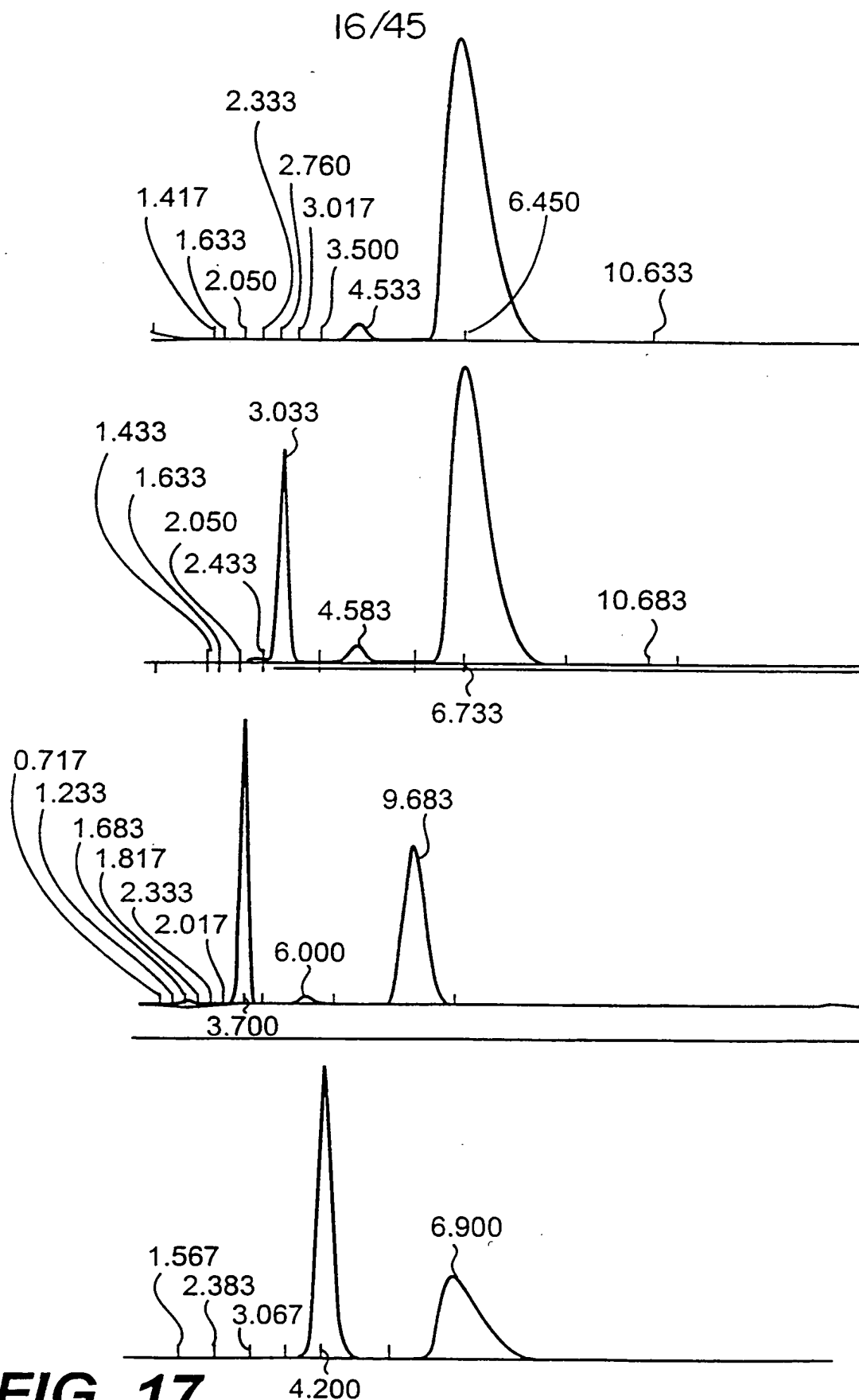
**FIG. 15**

SUBSTITUTE SHEET (RULE 26)

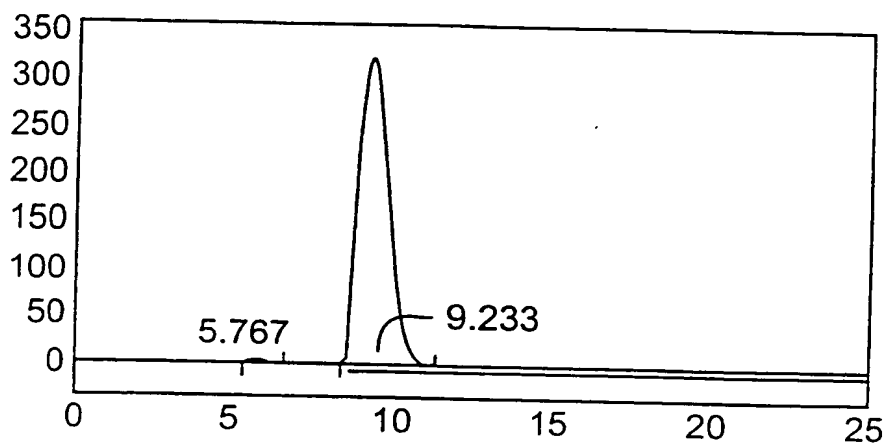
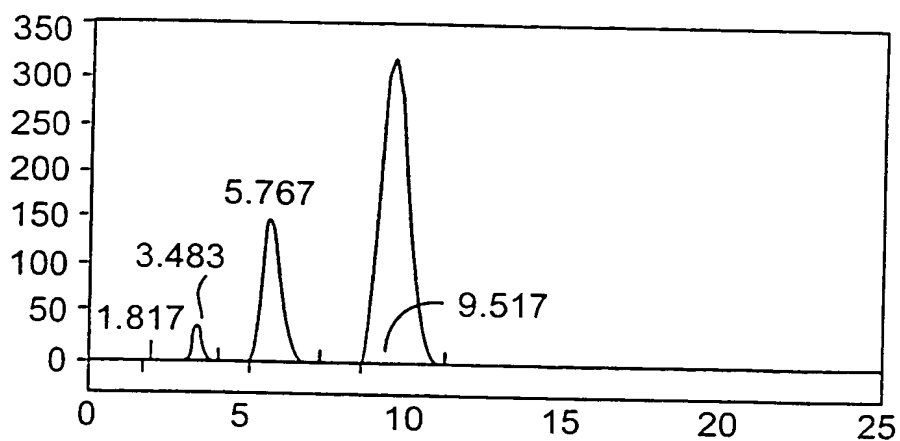
**FIG. 16A****FIG. 16B****FIG. 16C**

15/45

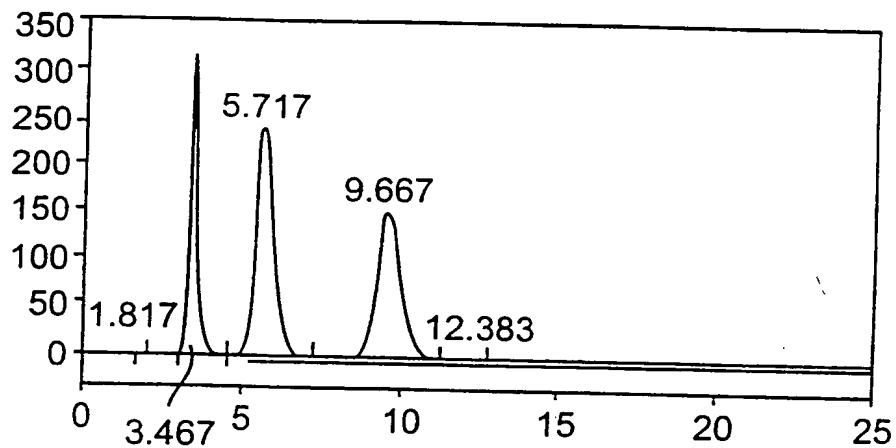
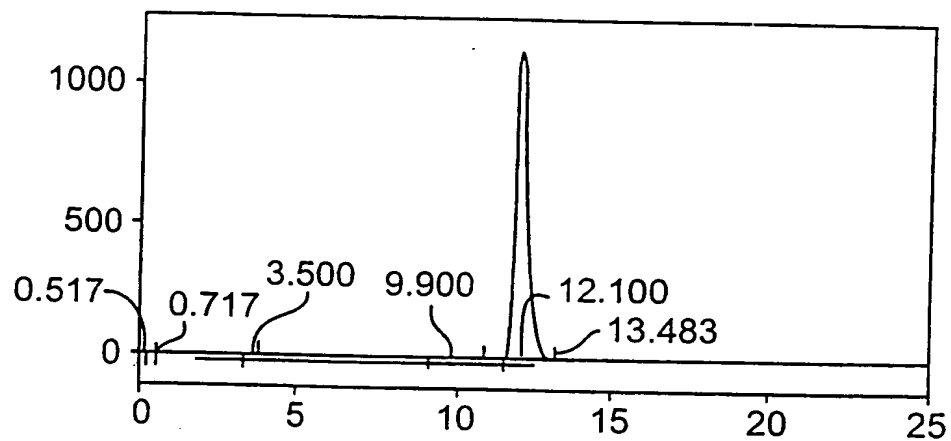
**FIG. 16D****FIG. 16E**

**FIG. 17**

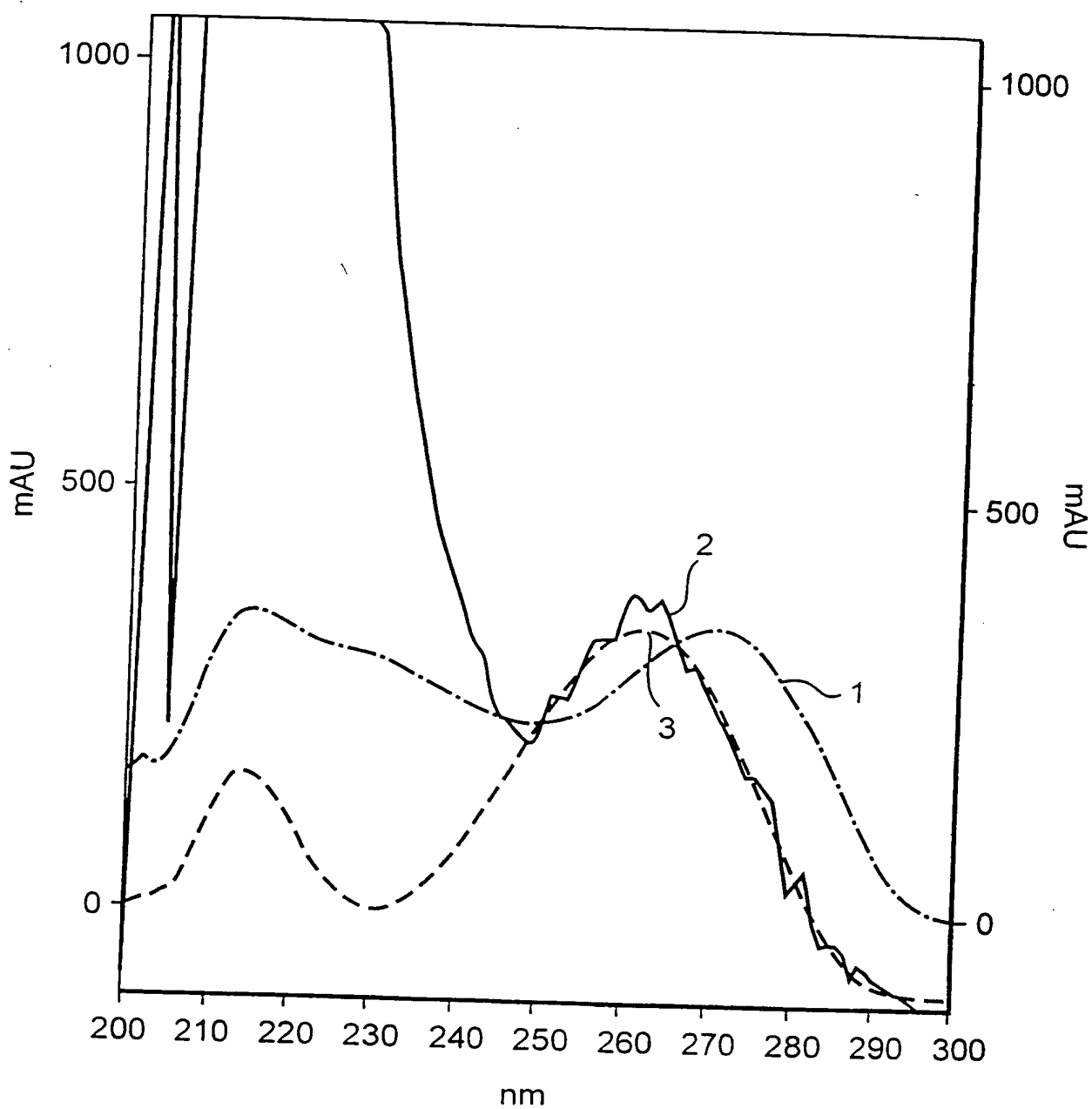
17/45

**FIG. 18A****FIG. 18B**

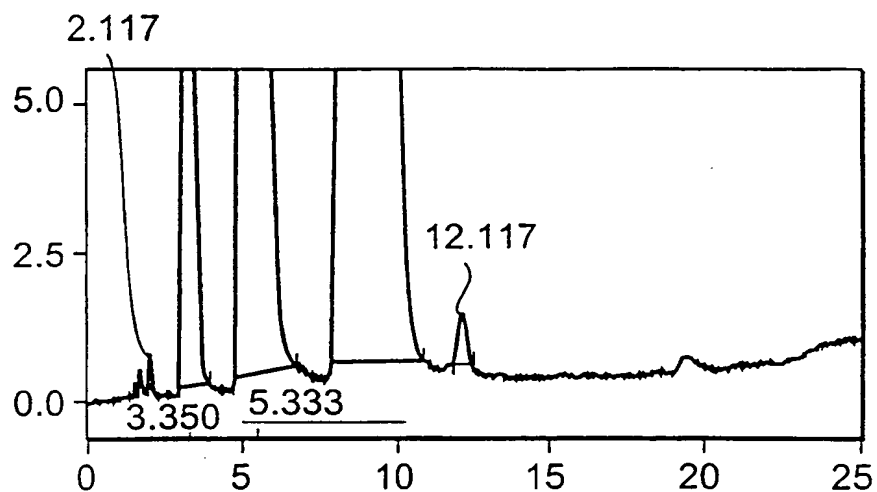
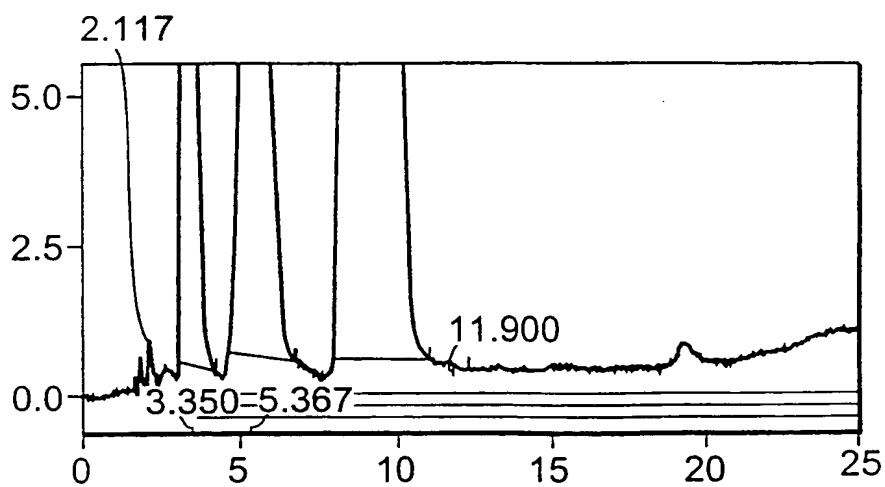
18/45

**FIG. 18C****FIG. 18D**

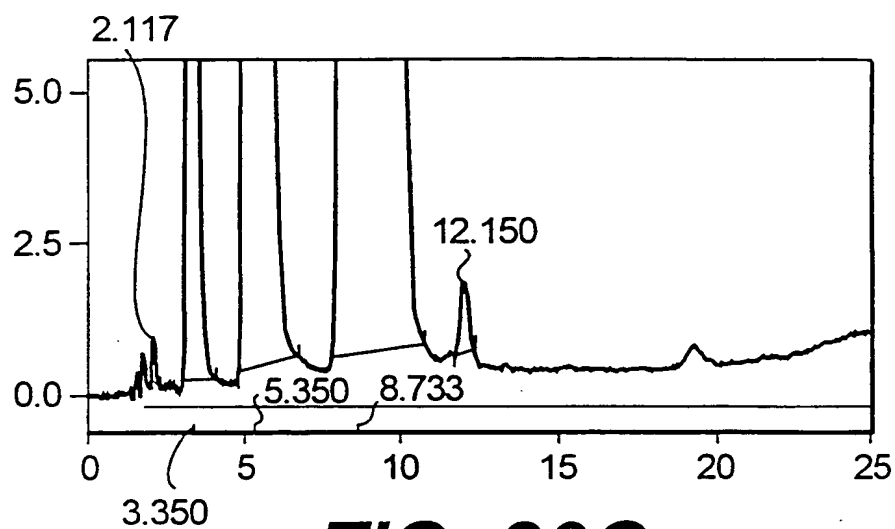
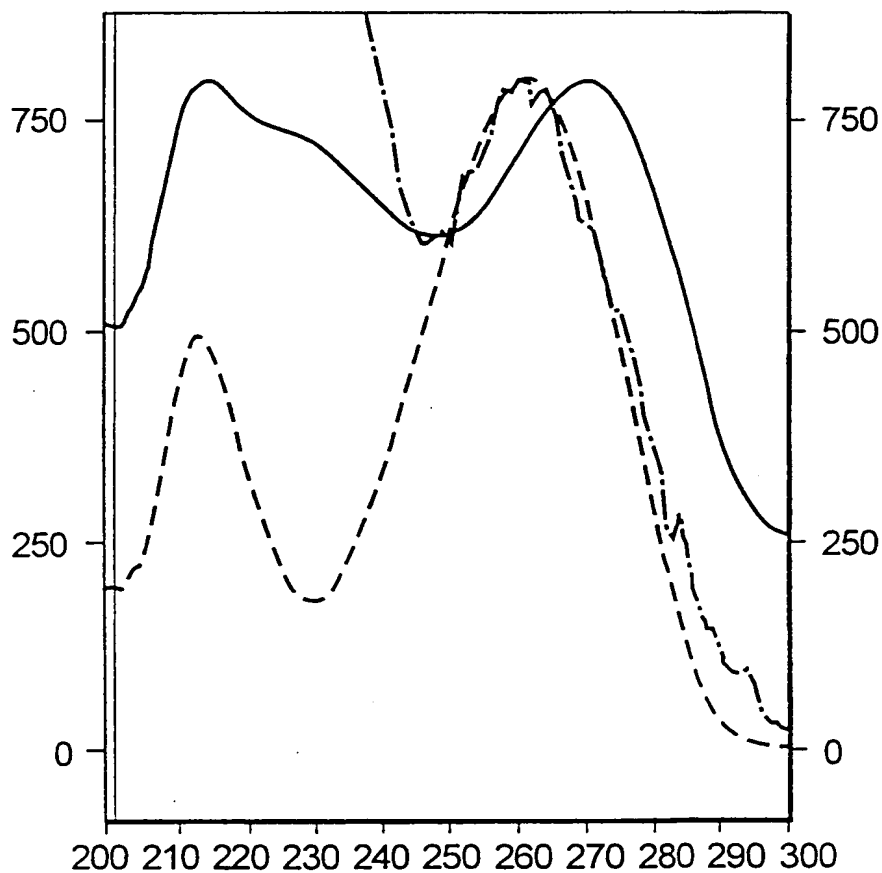
19/45

**FIG. 19**

20/45

**FIG. 20A****FIG. 20B**

21/45

**FIG. 20C****FIG. 20D**

22/45

1 2 3 4 5 6 7 8 9 10 11 12 13

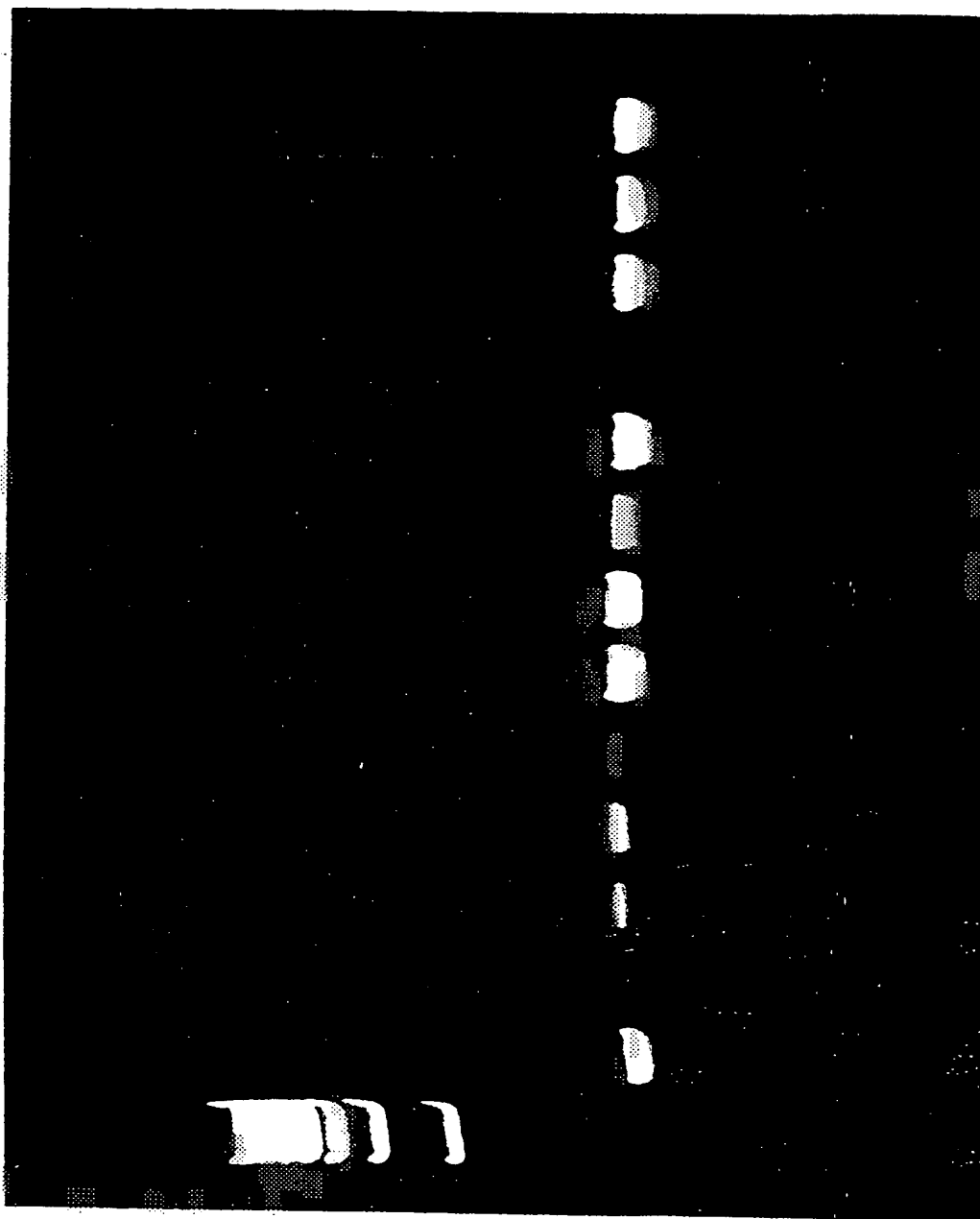


FIG. 21

24/45

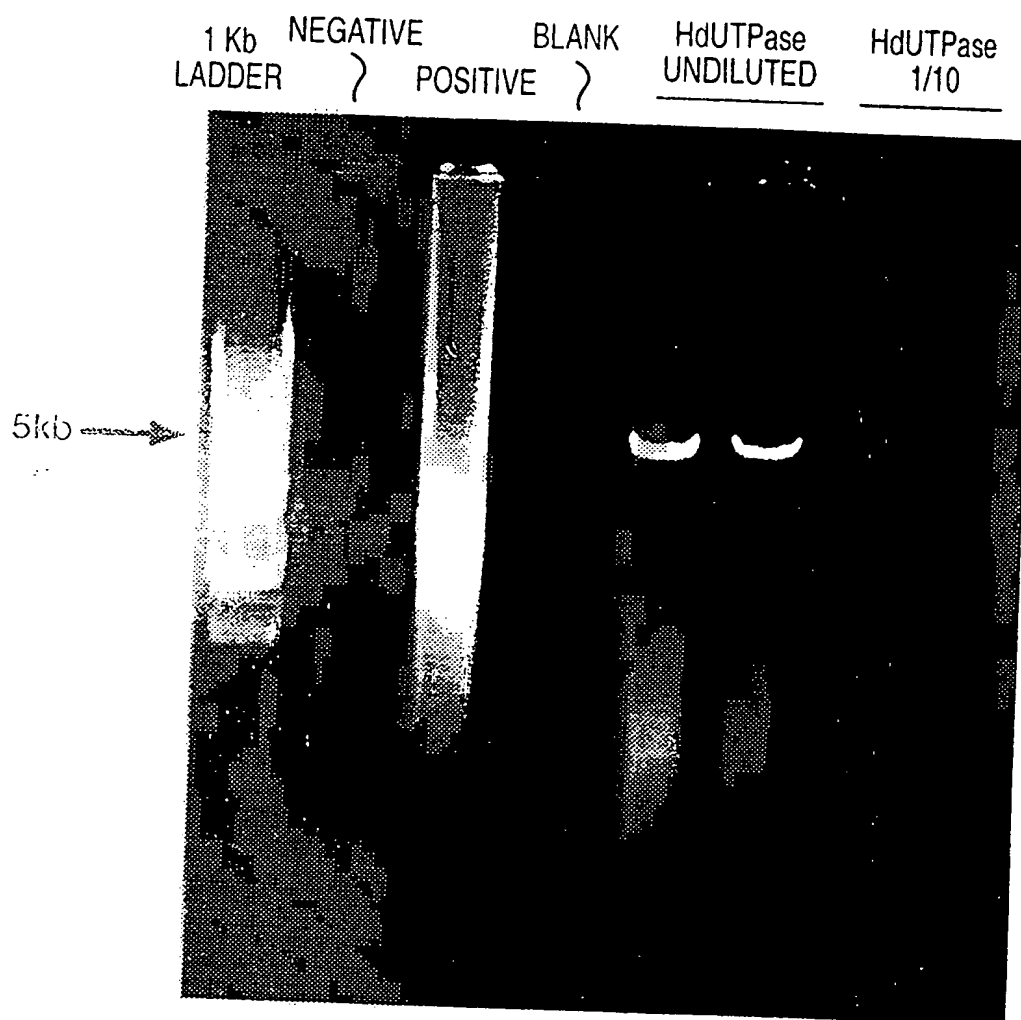


FIG. 23

25/45

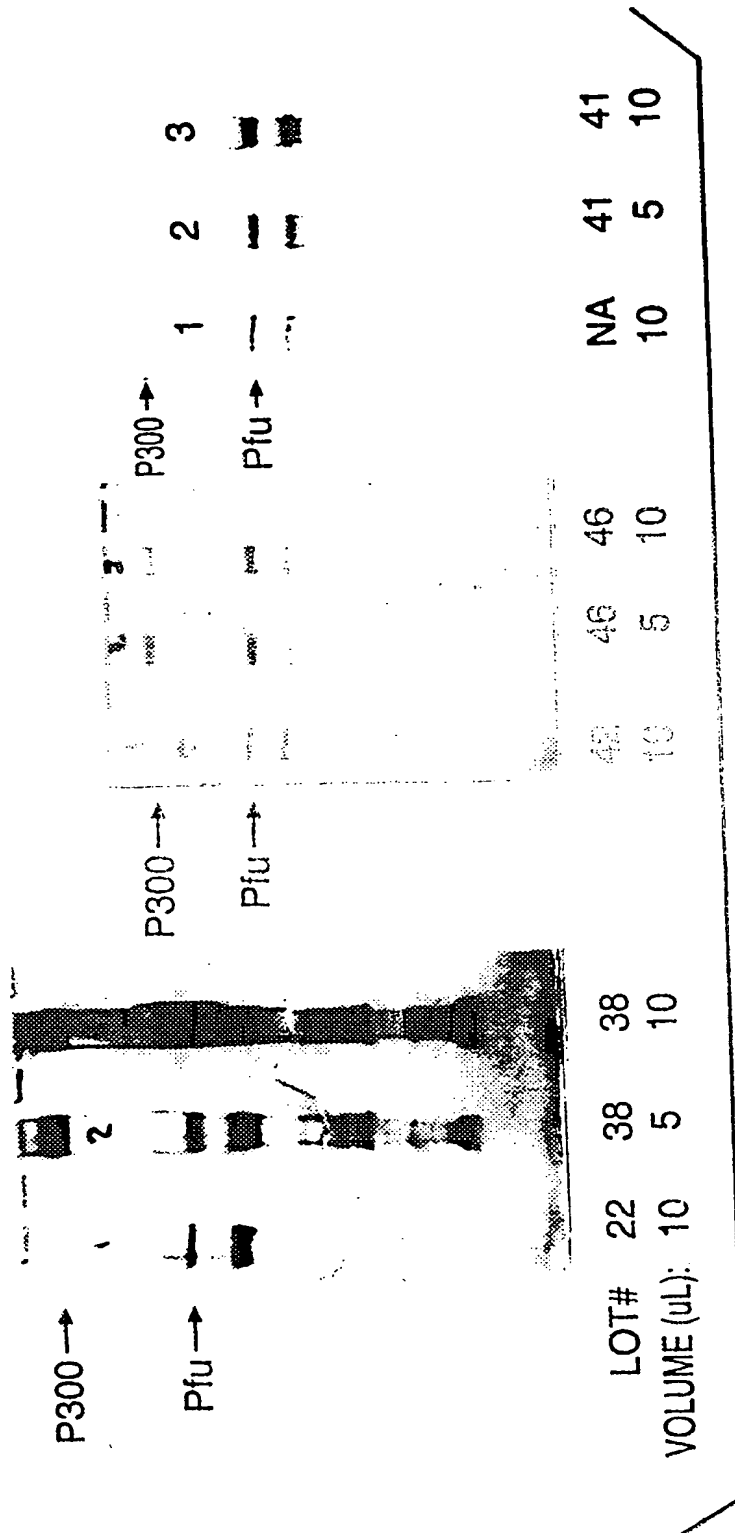
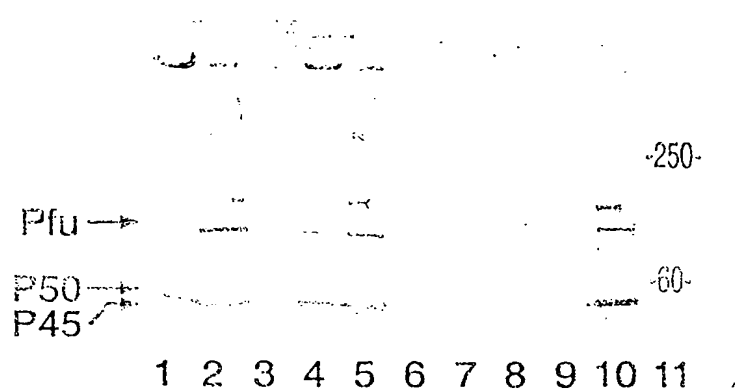


FIG. 24

26/45

**FIG. 25**

27/45

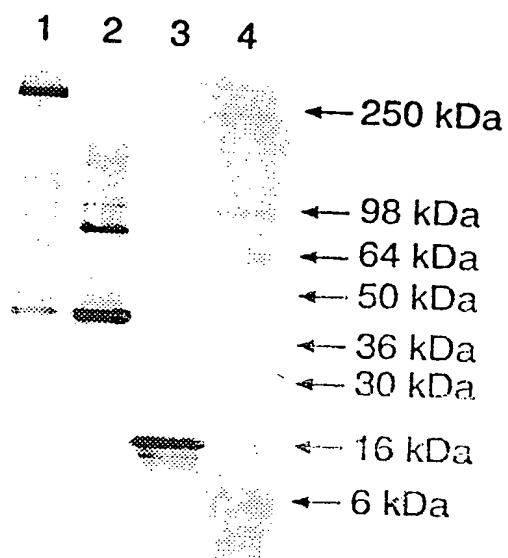


FIG. 26

28/45

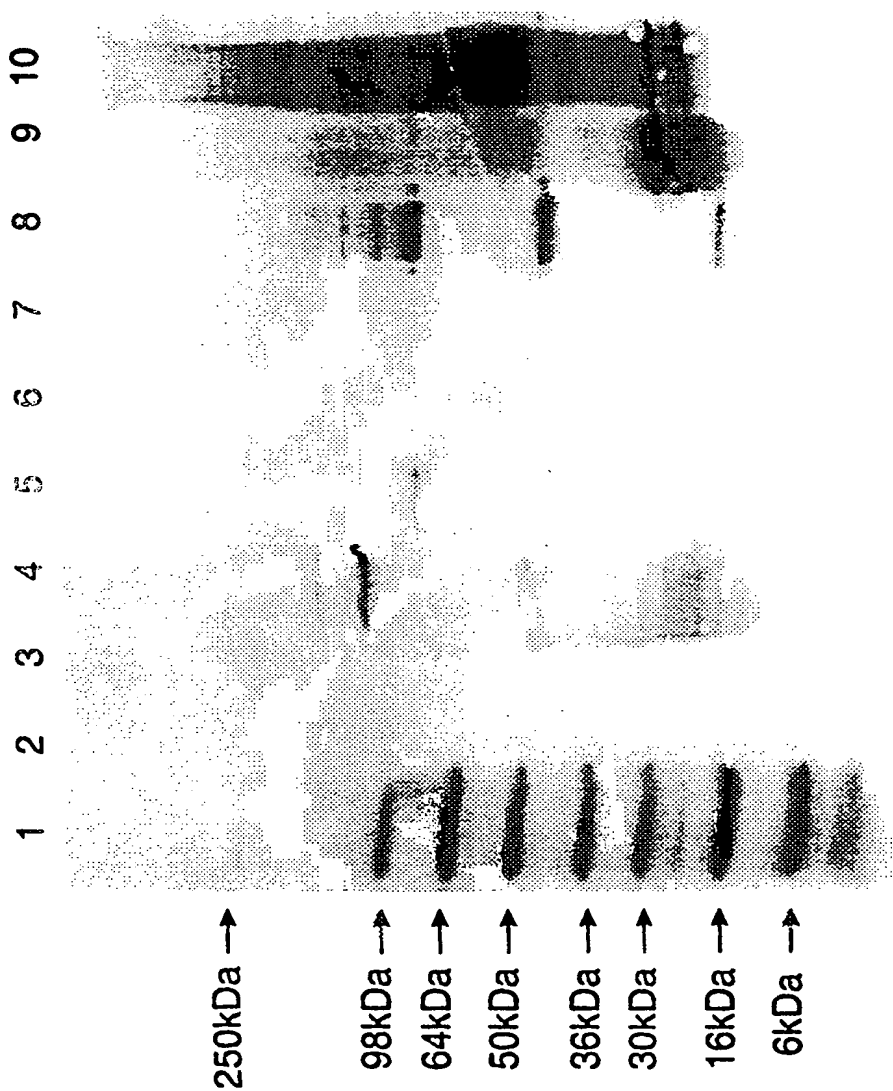


FIG. 27

29/45

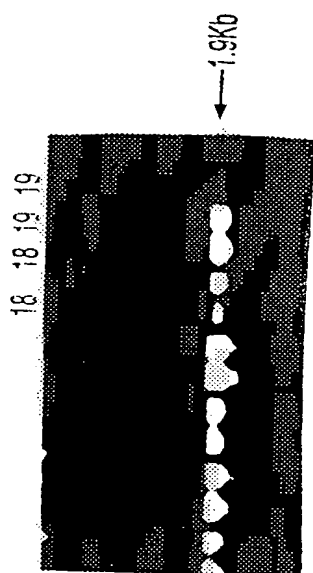
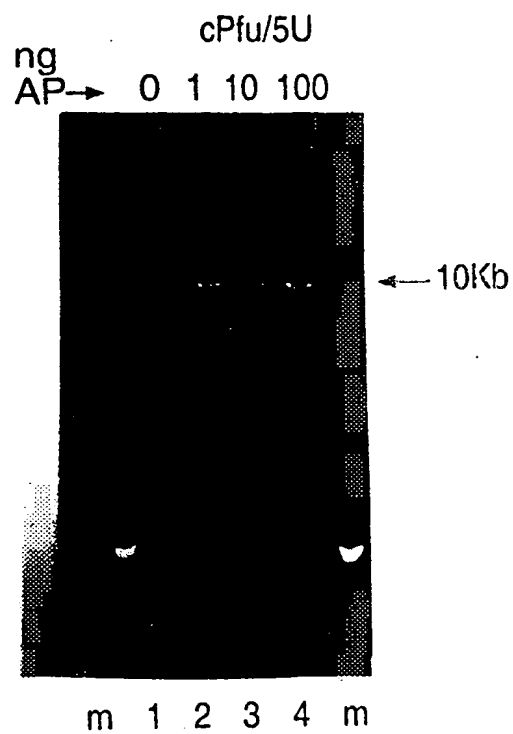


FIG. 28

30/45

**FIG. 29**

31/45

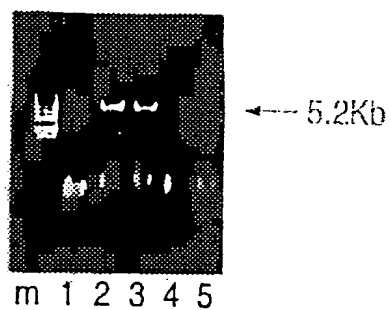


FIG. 30

32/45

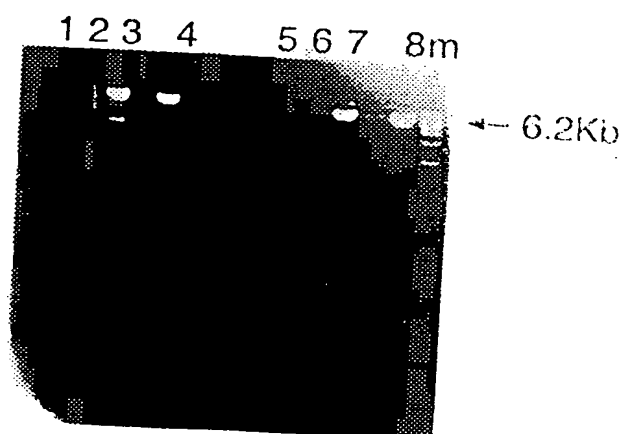


FIG. 31

33/45



FIG. 32A

FIG. 32B

34/45

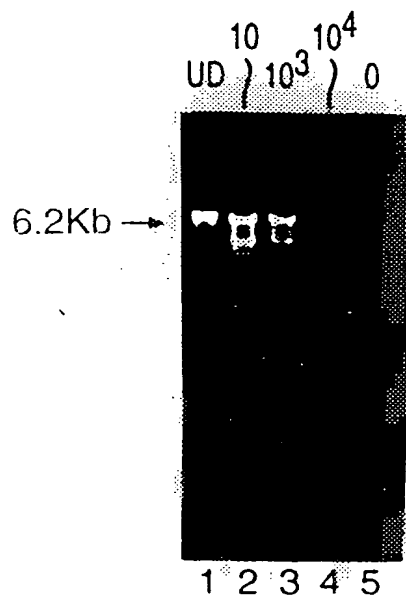


FIG. 33

35/45

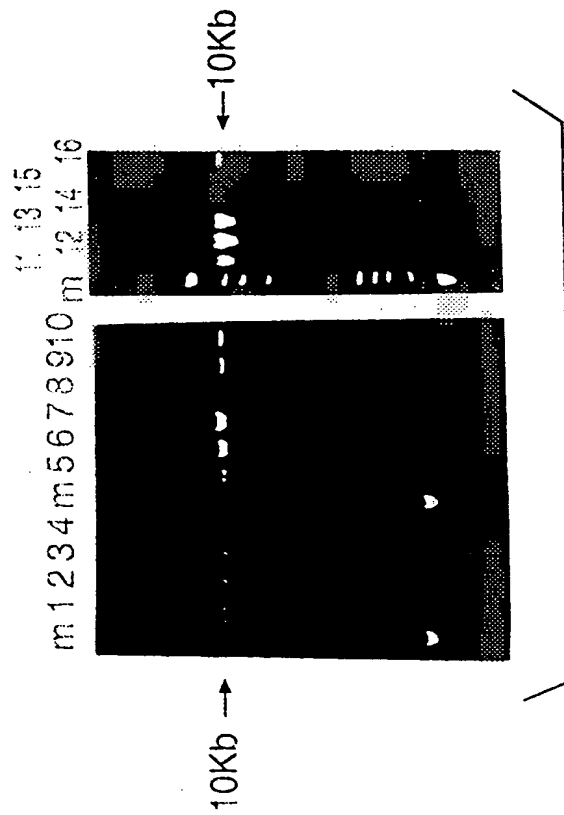
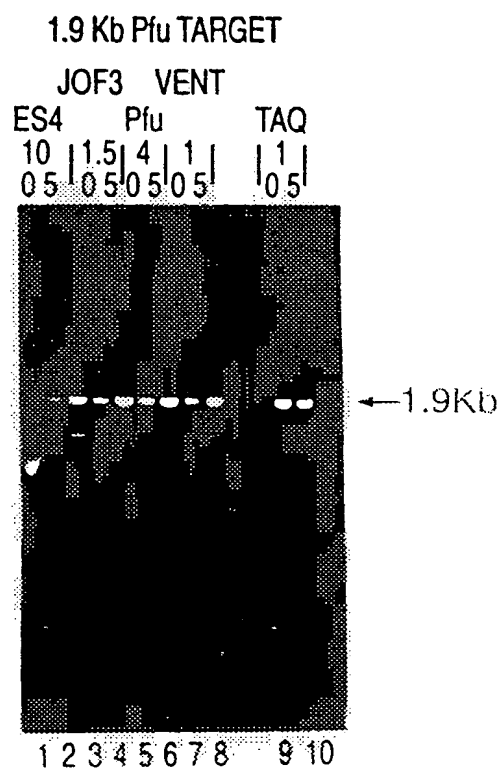


FIG. 34

36/45

**FIG. 35**

37/45

DEEP VENT USING 0.75u

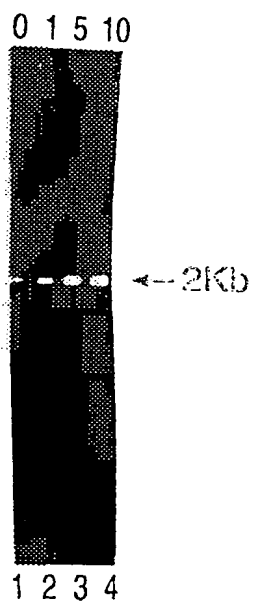


FIG. 36

38/45

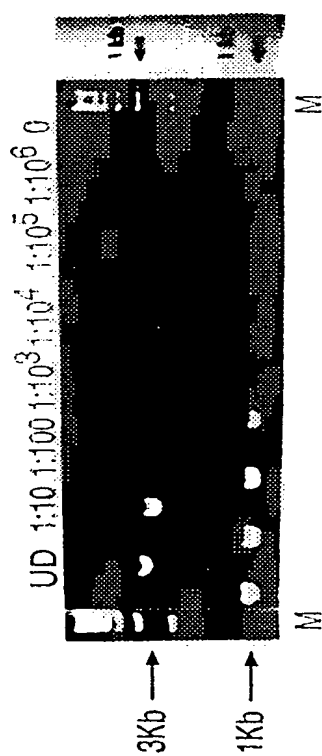


FIG. 37

39/45

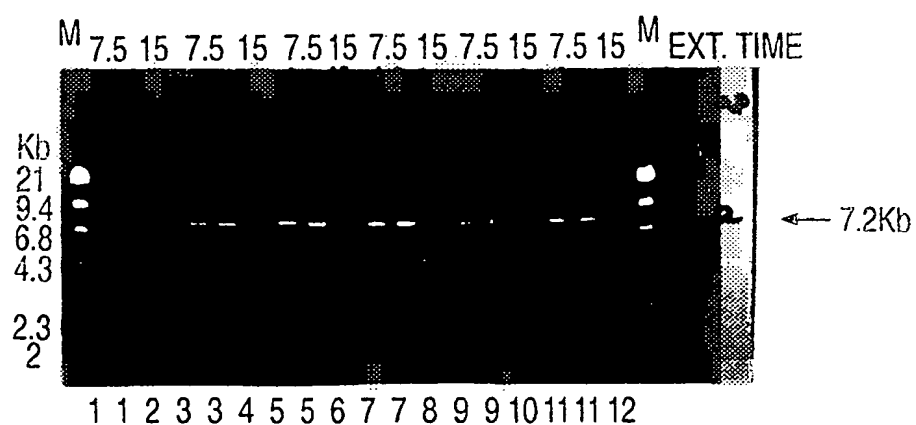


FIG. 38

40/45

Pfu "PCR ENHANCER" IN QUICKCHANGE MUTAGENESIS

LINEAR AMPLIFICATION CONDITIONS				TRANSFORMATION RESULTS	
<u>POL.</u>	<u>BUFFER</u>	<u>H.S. #75</u>	<u>AMPL. PROD.</u>	<u>#cfu</u>	<u>%MUTANTS</u>
nPfu (#38)	nPfu	0	+	84	95
		1 μ 1	\pm	47	87
		.1 μ 1	+	154	97
		.01 μ 1	++	632	95
		.001 μ 1	+	484	94
nPfu (#24A)	nPfu	0	+	94	89
		1 μ 1	+	34	85
		.1 μ 1	+	173	91
		.01 μ 1	++	468	96
		.001 μ 1	+	230	90

FIG. 39

41/45

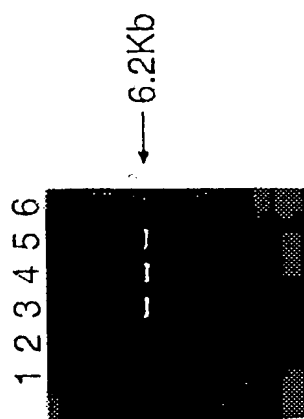
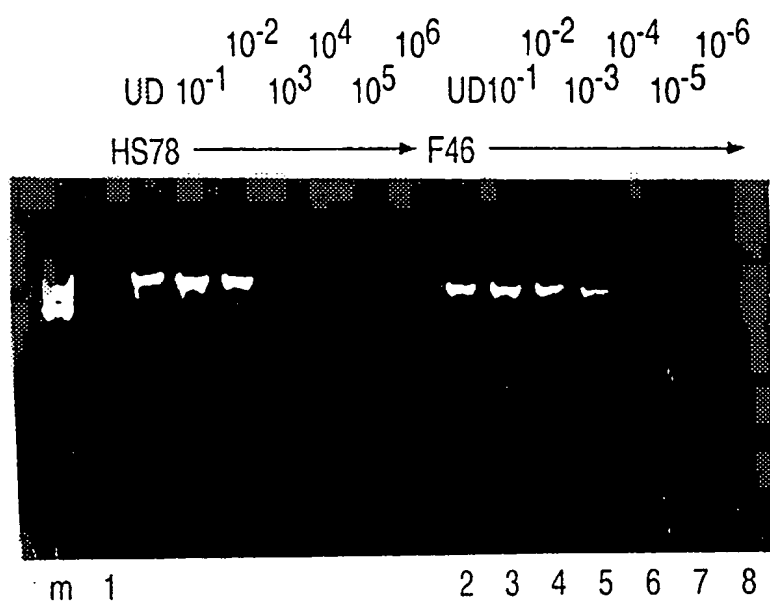


FIG. 40

42/45

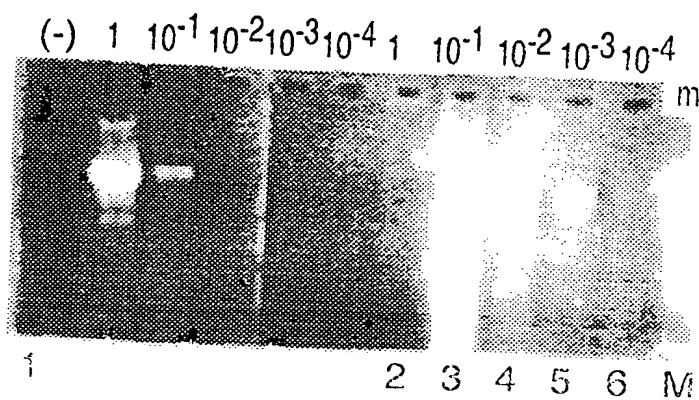
**FIG. 41**

43/45



FIG. 42

44/45

**FIG. 43**

45/45

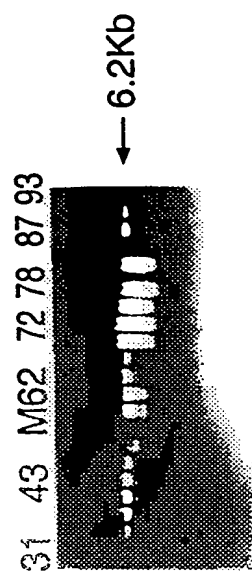


FIG. 44B

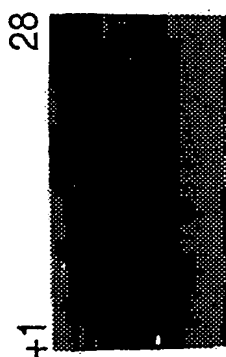


FIG. 44A